

Quick Turn-Lock Waveguide Transition Assembly

Abstract

A turn-lock waveguide transition assembly mountable to, for example, the feed assembly of an antenna. The transition assembly having a clamping groove which engages, for example, the heads of a plurality of clamping screws upon seating of the transition assembly onto a spigot of the feed assembly. The clamping screw heads enter the clamping groove via cut-outs along the sides of the transition assembly and engage the clamping groove upon rotation of the transition assembly. Alignment indicia on the transition assembly and the, for example, antenna base aid quick alignment of the transition assembly to a desired alignment, for example to a selected polarization if an aperture is added to a bore of the transition assembly. Because of the engagement between the clamping groove and the clamping screw heads, the polarization may be changed 90 degrees without removing the transition assembly from the spigot.